Visit to the Belmont Mill To Witness Ore Treatment

and a thirty per cent annual interest dried for forty-eight hours. is not to be scoffed at these times.

This mill was designed and construc-Jones and his associates, both as to about 48 hours. the metallurgical flow sheet and the company's engineering staff. He also consulting with General Superinten-

The total cost of the mill when tation supply tanks. ready for operation was \$465,189.07. It was designed to handle 500 tons a tion, during which time 260,000 tons of ore were treated, returned the entire cost of the plant,

It is impossible in the brief allotted space to give a description of the processes, but they will be roughly summarized. All crude ore is broken underground to pass through a nineinch grizzly and hoisted in three-ton skips to the ore pockets. Thence it is conveyed by an automatic railroad to the crusher pockets. The rock is fed to a picking belt. A gyratory crusher reduces it to the dimension of the undersize, which it joins. The ore in then automatically weighed while passing on a belt to the head of the mill. An ingenious sevice samples the ore in transit.

From the battery bins the ore is fed through open gates and Challenge feeders to sixty 1250-pound stamps. The average stamp duty is 8.88 tons a day. Stamping is done in cyanide

The battery discharge is delivered

CLUBS BETTER THAN MUSKETS

STEALTHY TACTICS OF INDIAN WARFARE IS MORE USEFUL THAN BEST EQUIPMENT

Hy Annociated Press.

BRITISH HEADQUARTERS, France May 29.—Between the British and Ger man modern machine warfare wherein every man was supposed to have become a pawn without initiative of his own has been developing perhaps the deadliest form of sport imagination

Hardly a day passes that there is not a trench "raid" by one side or the other, and sometimes several such sailies. No subject is more tabooed in its details by the censor. Invention fights invention; secrecy fights

The weapon that is least needed is a rifle. A club or a sandbag or an Indian battle axe or spiked club is better. A good slugger without any weapon at all may take an adversary's loaded rifle away from him and knock him down and then kick him to death.

The monotony of trench existence these days is broken by proparing for raids and against them. Battalion commanders work out schemes of strategy which would have won them fame in smaller wars. Fifty men or a thouwand may be engaged in a raid. It may be on a front of fifty yards or a thousand. Its object is to take as many prisoners and kill and wound as many of the enemy as possible in a few minutes; and then get back to their own trench. The assaulters try to hold on to the piece of trench they have taken, the guns are turned on them, the bombers close up on either side, and machine guns and rifles are prepared to sweep the zone of retire-

An uncanny curiosity gives the sold iers incentive for the raids. Ordinarily they never see their enemy hidden in his burrows across, "No Man's Land" from their own burrows. Unseen bullets from unseen snipers crack overhead. Unseen guns suddenly concentrate in a deluge of shells. For months this sort of thing goes on and the trenches of the adversaries remain always in the same place; the grim monotony of casualties and watching continues. This arouses the desire to "get at" the enemy which the trench raid satisfies. It means springing over the parapet and rushing across "No Man's Land" into the very houses of the enemy and man to man on his door step proving which is a better fighter.

WALLACE McGREGOR, former manager of the Goldfield Reduction tor to Tonopah after an absence of

An employe of the Tonopah Belmont to eight Dorr duplex classifiers. Lime | tute of Mining Engineers, Mr. Jones Development company in its mill at is slacked in a grinding pan and the ment. It spends \$10,000 just to effect duct from the tube mills flows to tive silver. a couple of cents a ton saving." Inas- eight five-foot Callow cones, the overmuch as the Belmont treats 3,000 flow then going directly to the Dorr tons a week, more than 150,000 tons thickeners and the spigot discharge a year, a saving of two cents a ton to Wilfey tables. The concentrates day. The actual power consumption desired to be more fully informed. gives the tidy profit of \$3,000 in a year are trammed to a vacuum tank and for each of the 20 stamps is 52.6 hp.

The overflow from the lower or first thickness flows either to the circulatted by the Belmont staff. Ground was ing tank or to the precipitation sup broken in August, 1911 and milling ply tanks. The underflow is pumped operation started July 25, 1912. Valu- to an air agitator. The total period of able experience was gained by Mr. agitation, under normal conditions, is

Filtering is accomprished by a selection of machinery through the 250-leaf vacuum-filter plant construcoperation of the company's old mill ted on the half-gravity system. Effat Millers. Otto Wartenweiler super- luent solutions are sent to precipitavised the detailed drawings of the tion or circulated storage by wet vacuum pumps. All pregnant soluhad direct charge of the construction, tion to be precipitated is delivered to a press solution vat and pumped dent Frederick Bradshaw and Superin-through clarifying presses. The clarified solution flows to complete precipi-

The precipitation presses are cleaned every fifteen days and the product day. The first sixteen months' opera-briquetted with borax, soda and sand. The melting is done in two doublecompartment carborandum-lined Rock presses, for a year's run, during which pounds of product, averaged from the presses 80.6 per cent fine in gold and

In his report to the American Insti-

noted that in the Bermont the silver

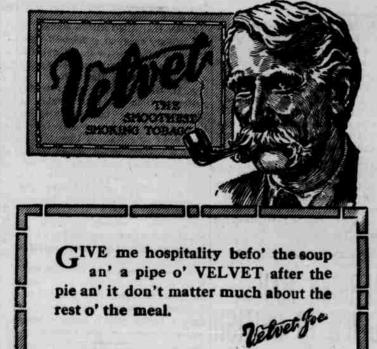
The crusher plant or the mill has a Danish pebbles have been found most economical for the tube mills. Agitation is effected by an air left through the central column of the agitating tanks. It has been discovered that a better extraction is obtained by heating the solutions, exhaust steam being used for this purpose.

Filling and emptying at the filters are accomplished by gravity. Solutions and pulp are returned by centrifugal pumps and bucket elevator. Solutions to be clarified are pumped through three Merrill presses with a maximum capacity of fifty tons per hour. Clarified solutions, to be precipitated, together with the required amount of zinc dust, are sent through three Merrill presses at the head of

The precipitation tank below the refinery conducts to the filter wash storage. The partly precipitated solution is used for dilution at the upper well furnaces. The product from the Dorr thickeners. The product from the precipitation presses is dumped by time the company melted 272,809 hand into cars run directly under the presses. Iit is dried over night to about 15 per cent moisture. The proped fluxes are added and the product is briquetted. Melting is done in two

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RENO FLORISTS

double-compartment Rockwell furnaces. They are heated with crude oil. The ordinary melt of about 150,000 ounces is gotten out in less than 36 hours after the fires are lighted.

The foregoing is written, by a layman, and, while the processes are followed in a general way, as nearly ex-Conopah, who shall be nameless for overflowing milk of sime is delivered occurs as silver sulphide, antimonial there are certain omissions in the deobvious reasons, complained thus to with the tube mill feed. Lead ace silver sulphide, arsenical silver sul- tails of the flow, but any information the writer: "We have a funny manage tate is also added. The finished pro phide, with iodine as a base and na- that is lacking would doubtless be supplied by Mr. A. H. Jones, superintendent of the mill, should anyone have capacity of about 100 tons per hour developed sufficient interest in this and is run only one 8-hour shift per interesting process that he should be

Notice of Application for Permisa to Appropriate the Public Waters of the State of Nevada.

Notice is hereby given that on the 15th day of April, 1916, in accordance with Section 19, Chapter 140, of the Statutes of 1913, one George E. McKenna of Goidneid, County of Esmeraida, and State of Nevada made application to the State Engineer of Nevada for permission to appropriate the public waters of the State of Nevada. Such appropriation is to be made from Wild Horse Spring, at a point N. 39 degrees 20 min. E. 4254 ft. distance from the SW corner of Sec. 31, T. 2 S. R. 44 E. M. D. B. & M., by means of a pipe and 9.05 of one cubic feet per second is to be conveyed to the SE4 of NW4 of Sec.

(Signed) W. M. KEARNEY

otlee of Application for Permission to Appropriate the Public Waters of the Sinte of Nevada Notice is hereby given that on the th day of May, 1916, in accordance ith Section 59, Chapter 140, of the Sta-ites of 1913, the Frank Ranch and s of 1913, the Frank Ranch at le company, a corporation, of Ren sty of Washoe, and State of ada made application to the Sta heer of Nevada for permission opriate the public waters of the of Nevada. Such appropriation we made from Jack Spring, at t from common corner Tps. 12 and forth, Rangos 22 and 1914. foot per second is to be conveyed to a point from common corner TDs. 12 and 13 North, Ranges 35 and 37 East, M. B. & M., N. 40 degrees, 43 minutes East 30.885 feet distant, by means of pipes, reservoirs, tanks and flumes and there used for stock-watering and domestic purposes. Water not to be returned to stream.

(Signed) W. M. KEARNEY, Date of first publication May 29, 1916. Date of last publication June 26, 1918.

Application No. 3988

Application No. 3988

Notice of Application for Permission to Appropriate the Public Waters of the State of Nevada

Notice is hereby given that on the 15th day of May, 1315, in accordance with Section 59, Chapter 149, of the Statutes of 1913, the Frank Ranch and Cattle company, a corporation, of Reno, County of Washoe, and State of Nevada made application to the State Engineer of Nevada for permission to appropriate the public waters of the State of Nevada. Such appropriation is to be made from Marble Falls Spring, at a point N. 47 degrees, 22 minutes East 23,514 feet from corner common to Tps. 12 N. R. 37 E., and Tp. 13 N. R. 36 E., M. D. B. & M., unsurveyed, by means of pipe line and one cubic foot per second is to be conveyed to a point N. 47 degrees, 22 minutes East 22,614 feet from corner common to T 13 N. R. 36 E., and T. 12 N. R. 37 E., M. D. B. & M., unsurveyed, by means of pipes, reservoirs. tanks and flumes and there used for stock watering and domestic purposes. Water not to be returned to stream.

(Signed) W. M. KEARNEY.

to stream.
(Signed) W. M. KEARNEY.
State Engineer
Date of first publication May 29, 1916
Date of last publication June 26, 1916.

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Application No. 3384

of Application for Permiss appropriate the Public Waters of the State of Nevada

State Engineer Date of first publication May 29, 1910 Date of last publication June 26, 1910

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